



# : HIPAA Compliance and RDMS

MMIS/HIPAA Conference 2003



### Oklahoma MMIS and HIPAA - Background



- Best of times.
  - Efficiencies Gained
    - Architecture decisions based on **HIPAA** transactions
    - Combined policy and HIPAA **Modifications**
    - System testing incorporated all changes
    - System Documentation



#### Oklahoma MMIS and HIPAA - Background



- Worst of times.
  - Concurrent timelines during design and construction.
  - Impact of the October 2003 extension
    - Adoption of a standard
    - Communication of the standard
    - Coordination of testing



- A HIPAA compliant system delivered:
  - Ahead of schedule
  - Under the estimated effort
  - Designed to support future changes to the X12 standard.

### Cklahoma MMIS and HIPAA - Technology



- Unix Operating System
- Oracle 9I Relational Database
- Application Code
  - -C
  - PowerBuilder 8.0
  - SQL
  - HTML/XML/ASP/JScripts



#### Advantages of the RDMS Design

- Additional Attributes to Data Model
  - Minimizes changes to application code
  - No mass recompiles
  - Normalized data model
    - Reduces application changes
    - Reduces redundant data



#### Advantages of the RDMS Design



- Table Driven Design
  - Complete adoption of HIPAA Code Sets
  - System Portability
  - Data Capture
    - Non-essential data maintained efficiently
    - Immediately available to users
    - Relationships are maintained for outbound transactions
    - Data available to Data Warehouse

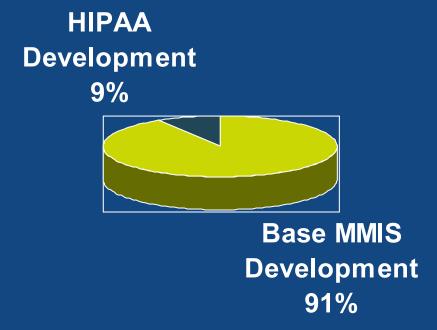




- RDMS Enabled System Design
  - Use of Attribute Keys
    - Reduce maintenance on attribute change
    - Base attribute value changes supported
  - RDMS-based Project Management tools improved Gap Analysis
  - Transaction based processing
    - Enabled Direct Data entry via Internet

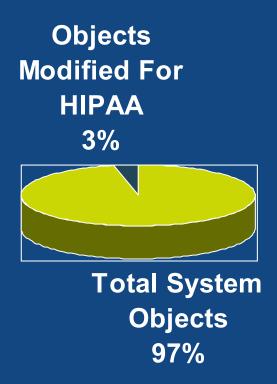


### :: HIPAA Remediation Effort



**■** Base MMIS **Development ■ HIPAA Development** 

## :: HIPAA Remediation System Objects Impacted



- **Total System Objects**
- **Objects Modified For HIPAA**



# **::** Questions and Answers



